

1. Write a function `isSquare()` that determines whether the given integer is a square number.  
The first ten square numbers are 0, 1, 4, 9, 16, 25, 36, 49, 64, 81  
`bool isSquare(int n);`
2. Write a function `isPrime()` that determines whether the given integer is a prime number.  
`bool isPrime(int n);`
3. Write and test the following `power()` function that returns  $x$  raised the power  $n$ , where  $n$  can be any integer:  
`double power(double x, int p);`  
e.g. `power(2,5)` is 32
4. Write a function `sum()` that computes the sum of all elements of an array  
`int sum(int arr[],int n);`  
e.g.  
`int a[3]={1,2,3};`  
`sum(a,3)` is 6
5. Write a function that returns the maximum value of an given 2d-array.  
`int max(int arr[][3], int n);`  
e.g.  
`int a[3][3]={{10,2,7},{2,31,15},{25,10,11}}`  
`max(a,3)` is 31
6. Write a function `reverse()` that reverse a giver array.  
`void reverse(int arr[],int n);`  
e.g.  
`int a[5]={1,2,3,4,5}`  
after `reverse(a,5)`,  
a becomes `{5,4,3,2,1}`
7. Compute the sum of all digits in an integer  $n$ :  
`int sumOfDigits(int n);`  
  
e.g. `sumOfDigits(111)` is 3  
`sumOfDigits(123)` is 6  
`sumOfDigits(101)` is 2